UNITED STATES PATENT AND TRADEMARK OFFICE

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10/566,877	02/02/2006	Louis Robert Litwin	PU030187	1132

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EXAMINER
BALAOING, ARIEL A

ART UNIT	PAPER NUMBER
2617	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

DETAILED ACTION

Response to Arguments

Continuation of 11:

1.   Applicant's arguments filed 10/25/2010 have been fully considered but they are

not persuasive.

Regarding the applicant's arguments that:

"*Turning now to Applicants' previous arguments in Applicants' previous response,*

the combination of Lira and Chitrapu does not yield Applicants' claimed invention. The

plain language of Applicants' independent claims 1 and 14 is clear. A peak correlation

*value is associated with the first synchronization value (slot synchronization). **This peak***

***correlation value is then used to determine a number**. This number is the number of*

frames to process the second synchronization channel to acquire frame

synchronization.

The Examiner's cited portions of Lira simply refer to correlation values and

*acquiring slot synchronization. **There is no description in Lira that a correlation***

value from the slot synchronization is used to determine a number as claimed by

***Applicants**.*" (see page 9 of the remarks; emphasis added).

Although the Applicant argues determination of a number, it is first noted that the

full limitation recites "determining **a number of frames to process** as a function of the

peak correlation value". As stated in the previous response, the term "determining a

number of frames" is broadly interpreted as determining "one or more frames" to

process based on a peak correlation value (i.e. peak correlation determined during slot

synchronization).

This interpretation is further supported in paragraph [**004**] and [**005**] of the

applicant's background of the invention reproduced below.

"[0004]As part of the cell search, the UMTS receiver first uses the PSCH to
achieve slot synchronization. In this regard, the UMTS receiver correlates
received samples of the received PSCH against the known PSCH 256 chip
sequence (which is the same for all slots) and, based on the location of the
correlation peak, determines a slot reference time. Once the slot reference
time is determined, the UMTS receiver is slot synchronized and can
determine when each slot starts in a received radio frame.

[0005]After slot synchronization, the UMTS receiver ceases processing of the
PSCH and begins processing the SSCH. In particular, the UMTS receiver
correlates the particular sequence of 15 SSCH codes in a received radio
frame against known sequences to achieve frame synchronization and to
determine the scrambling code group of the cell. Identification of the
scrambling code group then enables the UMTS receiver to descramble all of
the other downlink channels of the cell (e.g., the Common Pilot Channel
(CPICH)) for voice/data communications to begin.

As disclosed in the prior art, correlation peaks are used to during processing of a

frame to achieve frame synchronization. This corresponds to the techniques described

in LIM for example in paragraph [**0062**], wherein M frames boundaries are determined

based on peak correlation during cell search that again correspond to determining a

number of frames to process.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ARIEL BALAOING whose telephone number is

(571)272-7317. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on (571) 272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ariel Balaoing/
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